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SRG

STRING RESONANCE GENERATOR

CE

V2 - User Manual

V Series

rev. 4.0

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1 SET UP

1.1 Overview

The SRG V Series are a line of handheld, externally powered string resonators, based on nano scale SMDI architecture
Available in monophonic and polyphonic models.

The SRG V2 package includes :

- **V2 Handheld 2-Voice Polyphonic Bass Resonator**
- **AMX Power Supply Armband**
- **AMX-9 9 Volt Battery Port**
- **PS-2 Power Cable**
- **X4 or X6 Divided Bass String Sensor Kit**

The **V2** features high flux density neodymium core magnets and SMDI integration, 2 modes of operation (**NORMAL** / **LPF**), and 2 MUTE triggers - one for the Left Channel and one for the Right Channel.

The **V2** also features protruding **FANG** rails for accurate string tracking and 2 ultra bright - deep blue LED power indicators – one for each string.

The **V2** is designed specifically for bass, featuring highly inductive, low resonant frequency sensor and driver coils - directly wound on neodymium core magnets.

SET UP >

After unpacking the box, install the **X4** Divided String Sensor, according to the **X4** User Manual. Open and fasten the armband over the wrist of the operating arm - adjusting the tightness until the armband is as tight as possible within comfort limits.

Any looseness in the armband may cause the power supply to impact with the strings.

Connect the power supply cable first to the **AMX-9** Battery Port, and then to the DC connector on the **SRG**.

Orientate the power supply connector in the DC socket of the **V2** outwards away from the strings – as shown in the following illustration.

The armband should be positioned so that the power cable does not have any slack which could impact with the strings.

The blue LED power indicators will light up instantly when the power supply cable is firmly connected.

Flickering LEDs means that the cable is Not firmly connected.

The **V2** is fully operational the moment the 2 blue LEDs are on.

1.2 Power Supply

The V Series includes a DC connector for an external power supply.

All SRGs are externally powered, and therefore not design limited by internal 9 volt batteries.

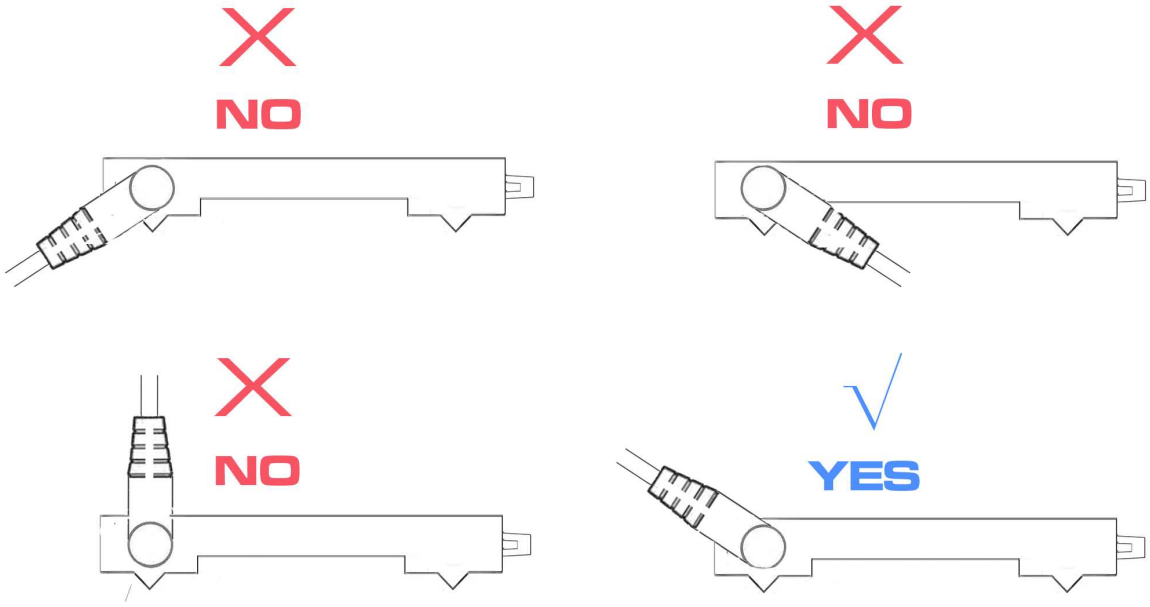
The unconstrained design also allows for future advances in energy storage technology.

The AMX Power Supply Armband and Power Supply Belt Pack both supply 9 V / 300 mAh to the SRG V2 via a DC power supply cable.

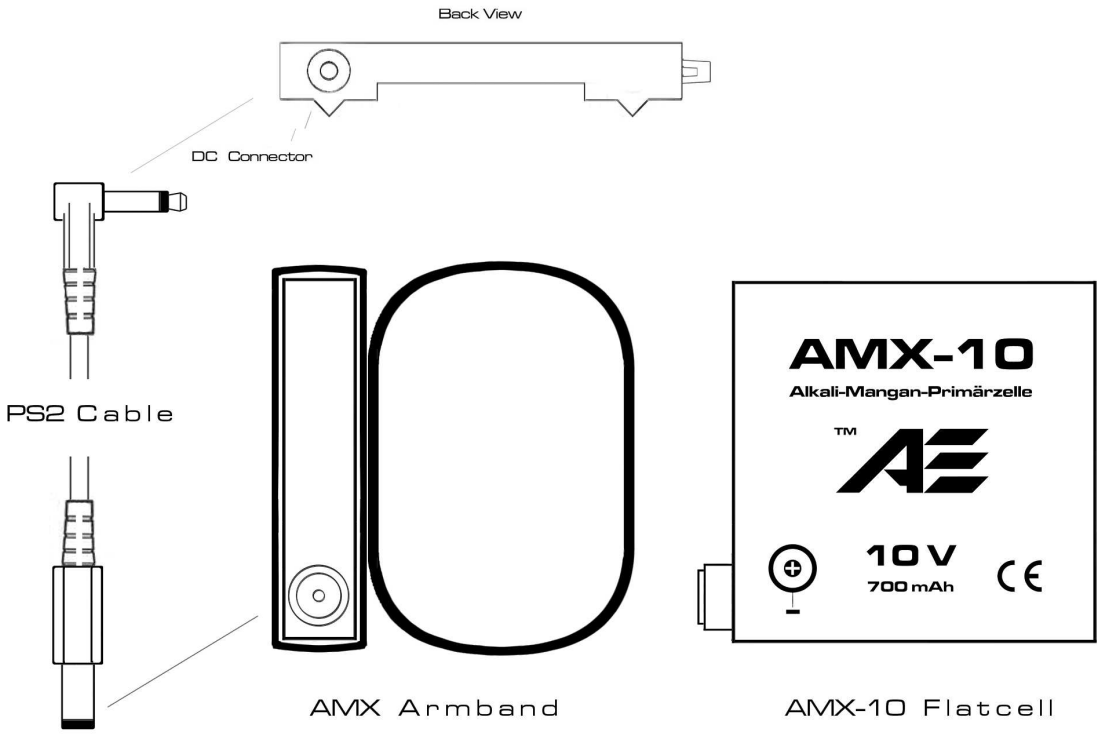
Only the AMX-9 with 2 fresh batteries installed can supply full current to the V2, although the SRG can operate at a lower power output on a single 9 Volt supply.

The optional AMX-10R is a rechargeable NiMH Flatcell, for use only with the AMX-10R Flatcell charger.

The AMX-9 Battery Port allows connection of (2) standard 9 Volt batteries, and fits within the attached loop of the AMX Power Supply Armband.



Connecting the Power Cable



AMX Armband

AMX-10 Flatcell

AMX ARMBAND POWER SUPPLY

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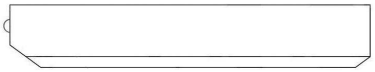
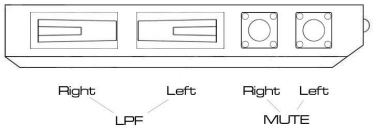
Left Side View



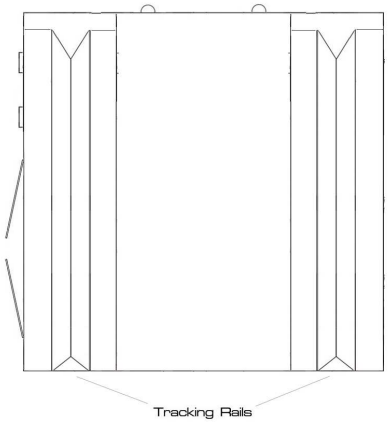
Right Side View



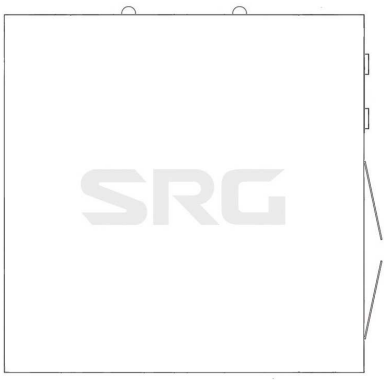
Back View

Front View

Bottom View



Top View



V2

HANDHELD POLYPHONIC BASS RESONATOR

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1.3 Functions

The **V2** is hardwired with 1 onboard effect for each of the 2 channels:

- **LPF** (low pass filter)

The front trigger activates Left Channel **MUTE**
The back trigger activates Right Channel **MUTE**.

Rapid triggering or alternated triggering produces some very interesting special effects available only to the **SRG**.

2 OPERATION

2.1 Instrument Compatibility

The SRG functions on any stringed instrument with ferromagnetic strings, including plain steel strings and steel core strings.

The V2 is equally effective on light and heavy gauge strings, and optimised for standard bass string spacing, as the pole spacing on the V2 is 15 mm, accounting for a standard 864 mm string length, and 42 mm nut.
Optionally – the V2 can be customised on request to accommodate any string spacing.

The outer tracking rails on the V2 span 4 strings, 2 support strings and 2 resonated strings. The unique "Fang" rail design allows more stable and accurate string mounting and tracking.

The SRG is also capable of driving Acoustic Steel String Instruments without electromagnetic transducers , although the tonal effects are less audible and transducer proximity effects are unavailable.

2.2 Handling

The V2 is designed to be handheld between the thumb and middle finger with the ring and index fingers free to operate the triggers and mute buttons, and with the LEDs facing towards the nut of the instrument.

The V2 is securely tethered to the cable of the AMX Armband, and therefore will not crash to the stage floor if the grip on the SRG is lost during operation.

2.3 String Mounting & Tracking

Place the guide rails on the 2 support strings, with the support strings on the outside of the "Fangs".

The SRG should rest absolutely level on the support strings, and never tilted to one side.

It's important to get a feel for the optimal positioning of the SRG, through persistent practice. Proper use of a cello bow is not learned in a day, and neither is the proper use of an SRG – both take practice!

2.4 String Driving

String driving (resonance) will initiate immediately after holding the SRG steady and level on the support strings.

Any deviation from top dead centre above and parallel to the driven string will result in various effects, the most obvious being fade in / fade out, and reverse envelope effect.

All positional effects are a result of deviation from parallel top dead centre above the driven string.

The best path to finding desirable effects is through constant experimentation.

2.5 Input Transducer Effects

Various Legato and Staccato effects are possible through the proximity and forward / backward angular relationship between the driver and the magnetic core of the input transducer (pickup) on the instrument.

Most useful effects depend on this distance and angular relationship

Provoking the input transducer in every conceivable manner will result in the discovery of more than a few useful effects.

2.6 Maintenance

If possible - always store the **SRG** in a dry, dust-free environment at room temperature (15 - 20° C).

Always remember to disconnect the Power Supply when not in use.
There is no OFF switch on the **V Series SRG** or power supply,
OFF = Disconnected Power Cable

Clean the **SRG** using a soft cotton cloth or t-shirt soaked in warm water, tight places may be cleaned using a cotton bud.

Never attempt to clean any part of the **SRG** with alcohol, acetone, ammonia, or any household cleaner!

TECHNICAL SPECIFICATIONS

SRG MODEL V2

Pole Spacing	15 mm
Supply Voltage	9 V
Power Output	500 mW
Driver Resonant Frequency	2300 Hz
Sensor Resonant Frequency	2300 Hz
Core Magnets	Neodymium
Quiescent Current Drain	8 mA
Operating Current Drain	110 mA
Voltage Gain	46 dB
LPF Attenuation	26 dB
THD	0.2%
Storage Temperature	15° - 25° C
Operating Temperature	0° - 35° C
Width	55 mm
Length	55 mm
Height	10 mm
Mass	28 g

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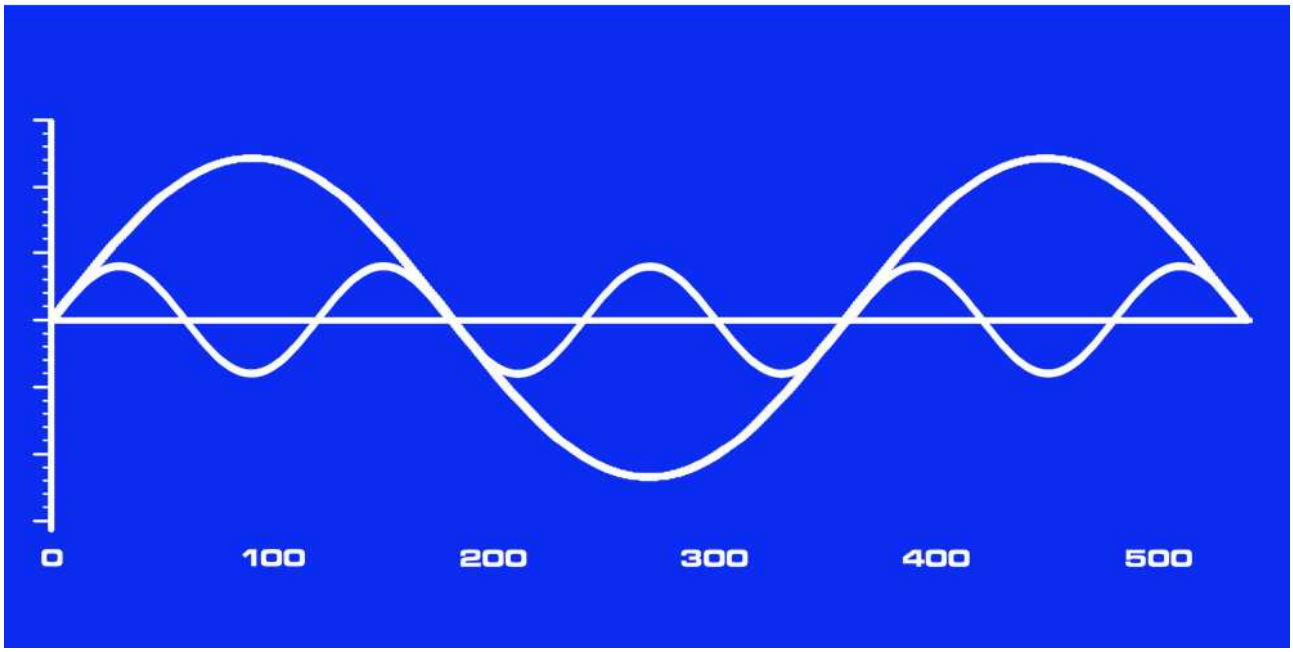
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